

Name _____

Ch 8 Test Study Guide AE

What is the law of conservation of matter?

What are the reactants and products of a chemical reaction?

What are the four observations that indicate a chemical reaction?

Write balanced formula equations for the following reactions

1. potassium chloride + silver nitrate \rightarrow potassium nitrate + silver chloride

2. aluminum hydroxide + sodium nitrate \rightarrow aluminum nitrate + sodium hydroxide

3. iron metal + copper (II) sulfate \rightarrow iron (II) sulfate + copper metal

4. aluminum metal + cupric chloride \rightarrow aluminum chloride + copper metal

5. sodium chlorate \rightarrow sodium chloride + oxygen gas

6. butane (C_4H_{10}) + oxygen \rightarrow water + carbon dioxide

7. tin (IV) bromide + magnesium oxide \rightarrow tin (IV) oxide + magnesium bromide

Balance the following chemical reactions and indicate the reaction type.

